

AMENDMENTS TO THE CLAIMS

1. (Previously Presented) An electrophoresis method comprising:
preparing a sample consisting essentially of a protein to be tested dissolved in water; and
subjecting the sample to electrophoresis in an electrophoresis buffer having a pH of 2.0 to 9.0 for
size separation without a heat-denaturing treatment, wherein said electrophoresis is selected from
the group consisting of capillary electrophoresis, microchip electrophoresis and nano-channel
electrophoresis.

2. (Cancelled).

3. (Previously Presented) The electrophoresis method according to claim 1, wherein two
or more molecular weight markers are subjected to electrophoresis together with the protein,
wherein at least one of the markers is adjusted to a low concentration as compared to a standard
concentration, wherein the standard concentration is a concentration of the molecular weight
marker that is recommended by the manufacturer or a general protocol in accordance with the
kind of electrophoretic apparatus, the detection limit, the detection sensitivity and determination
accuracy of the electrophoretic apparatus.

4. (Previously Presented) The electrophoresis method according to claim 1, further comprising two or more molecular weight markers are subjected to electrophoresis together with the protein, wherein one of the markers is adjusted to a concentration of 1/10 to 10 times the concentration of the protein to be tested.

5. (Cancelled).

6. (Previously Presented) An electrophoresis method comprising:
preparing a sample solution comprising a protein dissolved in a liquid component consisting essentially of water; and
subjecting the sample to electrophoresis in an electrophoresis buffer having a pH of 2.0 to 9.0 for size separation without a heat-denaturing treatment, wherein said electrophoresis is selected from the group consisting of capillary electrophoresis, microchip electrophoresis and nano-channel electrophoresis.

7. (Previously Presented) The method according to claim 1, wherein said pH is 6.8 to 8.6.

8. (Previously Presented) The method according to claim 6, wherein said pH is 6.8 to 8.6.

9. (New) The method according to claim 1, wherein said method shows an increase in protein concentration during electrophoresis when compared to proteins which were heat treated.

10. (New) The method according to claim 1, wherein said method has high reproducibility.